

AMENDMENTS TO THE CLAIMS

Please enter the following amendments to the claims without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows:

1-26. (Canceled)

27. (Currently Amended) A peptide comprising ~~[[a]]the full length sequence selected from the group of sequences:~~

~~(i) Met-Thr-Met-Pro-Thr-Met (SEQ ID NO: 1);~~

~~(ii) Pro-Leu-Pro-Gln-Met-Leu (SEQ ID NO: 2); and~~

~~(iii) Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg (SEQ ID NO: 3)[[;]]~~

or a functional variant thereof ~~which is at least 6 amino acids in length and~~ which is at least 80% identical to the recited full length sequence and which retains its ability to bind to A β , said A β having SOD activity, and inhibit A β 's SOD and/or copper binding ability.

28. (Previously Presented) A peptide according to claim 27 that binds at or near a copper binding site of A β and physically prevents the binding of copper.

29. (Previously Presented) A peptide according to claim 27 wherein the peptide binds at or near amino acids 5-14 of human A β .

30. (Previously Presented) A peptide according to claim 27 wherein the peptide binds at or near amino acids 8-14 of human A β .

31. (Previously Presented) A peptide according to claim 27 wherein the peptide binds at or near amino acid 13 of human A β .

32. (Previously Presented) A peptide according to claim 27 that binds to A β and disrupts the conformation (or 3-D structure) of the copper binding site to reduce or totally remove its ability to bind copper and/or its SOD activity.

33. (Original) A peptide according to claim 32 that binds and disrupts the conformation of amino acids 5-14 of human A β .

34. (Original) A peptide according to claim 32 that binds and disrupts the conformation of amino acids 8-14 of human A β .

35. (Original) A peptide according to claim 32 that binds and disrupts the conformation of amino acid 13 of human A β .

36. (Previously Presented) A peptide according to claim 27 that binds to A β and reduces or totally removes its SOD activity whilst still allowing the A β to bind copper.

37-46. (Canceled)

47. (Currently Amended) A deletion functional variant of the peptide Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg (SEQ ID NO: 3) which is at least [[6]]12 amino acids in length and which retains its ability to bind to A β , said A β having SOD activity, and inhibit A β 's SOD and/or copper binding ability.

48. (New) A polynucleotide encoding any one of the peptides of claim 27.